7000-7049

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

1899

STATION NUMBERS

Numbers 7000 to 7049

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7000

Date, June 22nd 1899.

Time of day, 8.10 am; of tide, Ebb. 1/3

Locality, Narragansett Bay

Exact position, Dutch Sold Light N.E. x N. 1/2 mile

Depth, 6 3/4 fathoms

Nature of bottom, Muddy

Dredging instrument used, 7 feet trawl

Direction of drift, O 1/4 E; distance, 3/8

Temperature of air, 61 therm. No., 1013

" of surface water, " 12

" at depth of fathoms, "

" at bottom, " 12.1

Density at surface, 1022.5 temp.,

~~" at depth of fathoms, "~~

" at bottom, 1022 "

Number of salinometer, 7323

Barometer reading, 30.04

State of sky, Blue

Direction of wind, North; force, ~~0~~ 5

Rain, No

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Comm

Name and rank of commanding officer, Male Jas. A. Smith U.S. Navy

Name and position of observer, J. D. Milligan Pharmacist Navy

NOTES RELATING TO STATION NO. 7000

About 50 common Stars
Arms about 5 inches
1 purple stand.
About half of the stars
full of spawn & sperm
Large quantities of mussels

Tow -
Few old Brachiolaria
Great many gastrolides.
Dermal plains
Lots of cope pods

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7001

Date, June 22 1899

Time of day, 8.40 am. ; of tide,

Locality, Narragansett Bay

Exact position, Whale Rock

N. E 5/8 N. 1 mile.

Depth, 10 1/4 fathoms

Nature of bottom, Muddy.

Dredging instrument used, 7 feet trawl

Direction of drift, S. x E. ; distance, 5/8 mile

Temperature of air, 63° — therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023. temp., 11.2

~~" at depth of fathoms, "~~

" at bottom, 1023.4 " 15°C 58°

Number of salinometer, 7323

Barometer reading, 3007

State of sky, Blue

Direction of wind, North ; force, 4

Rain, No

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, F. Comm

Name and rank of commanding officer, Mate Jas. A Smith, U S Navy

Name and position of observer, J. W. Milligan Pharmacist U S Navy

NOTES RELATING TO STATION NO. 7001

Purple stains
Iceland scallops (pect. tenuis)
Goose fish.
1 Summer flounder
1 Goose fish
1/2 skates (Erinacea?)
1 pe
Egg strings Natica dup (?)
Eggs of Illyonassa.

Tow
More brachiolaria than
previous haul
Gastrulae, same number
More clams than before
Cerratum.
~~Peridinium~~
Peridinium

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7002

Date, June 22 – 99

Time of day, 9.15 ; of tide,

Locality, Off Narragansett Pier.

Exact position, Whale Rock

N. 3/4 E. 2 1/4 miles

Depth, 16 fathoms

Nature of bottom, Muddy

Dredging instrument used, Dirt trawl

Direction of drift, S. S. E ; distance, 1/2 mile

Temperature of air, 63° Fahr therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023.2 temp., 11° C

~~" at depth of fathoms, "~~

" at bottom, 1024.2 " 11° 53 1/2

Number of salinometer, 7323

Barometer reading, 30.07

State of sky, Blue

Direction of wind, N. E ; force, 3

Rain, no –

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Male

Jas. A. Smith Ussuary

Name and position of observer,

J. H. Milligan

Pharmacist Usn

NOTES RELATING TO STATION NO. 7002

Caprella. not alive with them
& squirrel hake.
1 Physis tenuis
Several flounders (amber)
Live ~~Nitra~~
Few astarte
Few Yoldia.
" Eupa. Bedlardus
Corangon vul, few
Anthropods
Cancer irrorata
1 Molgula
Illianass a egg.
Lepidonotus.
Sternastis.
Trophonia.
Tubularia croth.
Myriads of anelid worm tubes

Tow.
x Polygordius. many
more clams than before
Gastrotids the same
Copepods the same
very few brach.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7003

Date, June 22 – 99.

Time of day, 9.55 ; of tide,

Locality, near Brenton Reef. L. ship

Exact position, Brown Tail

N. N. W. ~~[illegible]~~ 2 miles

Depth, 16 fathoms 2 3/8 miles

Nature of bottom, Muddy

Dredging instrument used, 7 feet trawl

Direction of drift, N. N. E ; distance, 1/2 miles

Temperature of air, 62 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023. temp., 13°–

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 12.50 C 54.50

Number of salinometer, 7323

Barometer reading, 30.08

State of sky, Blue

Direction of wind, N. E ; force, 3

Rain, no

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Male

Jas. A. Smith USNavy

Name and position of observer,

J. D. Milligan

Pharmacist USNavy

NOTES RELATING TO STATION NO. 7003

1 Goose fish.
several Ermacea.
Purple stars. numerous.
Few squirrel hake.
Cancer borealis
Eggs of Illionassa
" " Natica.
1 Buccinum
Venus - empty - few
Loculpin

Few
Very few clams
No gastroteds
No brachiolaria
Many ceratium.
Lots of copepods.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7004

Date, June 26 - 99

Time of day, 11. am ; of tide, 2/3 Flood

Locality, Midway bet. Cape Pogue & E. chop

Exact position, Cape Poge S. E x S.
2 3/8 miles.

Depth, 5 1/2

Nature of bottom, Sandy -

Dredging instrument used, 7 feet beam trawl.

Direction of drift, S. E. x E. ; distance, 1/2 mile

Temperature of air, 72 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0225 temp., 20° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 19.4 C 67°

Number of salinometer, 7323

Barometer reading, 29.98

State of sky, Blue - light clouds.

Direction of wind, Calm ; force, 0

Rain, No -

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. Fish Com.

Name and rank of commanding officer, Mate
Jas A. Smith. USN

Name and position of observer,
J D Milligan
Pharmacist USN

NOTES RELATING TO STATION NO. 700K

Fulgar several.
" Astrea Forbesii 2
Neverritta.
Empty Mactra shells.
Egg string of fulgar 2
Erinaceae
Chiton. 2
Serpula —
Bryozoa — numerous
E. policaris in Lunacia heros.
Hydractinia
Empty razor shell
Bugula —
Anomea.
Eggs of Neverritta.
Modiola Modiolus
Squid Eggs
Capridula plana
Dead shells of Capridula fornicata
Pelia Mutica.
Tops of tubes of Diopatra.
Isopod.
Quantity of dead sea weed.
Balanus
Cynthia
Tretia with E. longicaspus (?)
Eggs of Anachis
Few Mytilus shells
(Cardium pinnulatum)
Astyris 1 Small Liv. scaphanea
Epizoanthus. Totenia (?)

Nereis several
Harmothoe
Panopeus small
Dead scaphanea
anthropod
Anachis shells with
E. anelipes
Gammarus
E. anelipes

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7005

Date, June 26 - 99

Time of day, 11.40 ; of tide, 3/4 flood

Locality, Vineyard Sound

Exact position, Cape Poge S. 3/4 W. 2 1/2 miles.

Depth, 11 fathoms

Nature of bottom, Sandy —

Dredging instrument used, 7 feet ham trawl

Direction of drift, E. S. E ; distance, 1/2 mile

Temperature of air, 74° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0226 temp., 20°

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 19.4°C 67

Number of salinometer, 7323

Barometer reading, 29.98

State of sky, Blue - light - clouds.

Direction of wind, Calm ; force, 0

Rain, No —

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. Fish Com.

Name and rank of commanding officer, Mate Jas. A. Smith, USNavy

Name and position of observer, J. W. McGuigan Pharm. USN

NOTES RELATING TO STATION NO. 7005

Window pane flounder
Fulgur. with barnacles
Lyonia
Squid eggs.
Squid
Fulgur shell with Cap. f. planer,
hydroids, Bryozoa + barnacles,
Sespula
Sycotypus strong. - Anomia (dead)
Euroscalpin " (alive)
Scaphanea.
E. longicarpus plentiful
Sand dollar.
Few shells of scaphanea
Crangon.
Heterocrypta.
Chiton obic.
Eggs of lunacea + shells.
Neorritta shells.
Tritia occupied by E. long.
Shells of Anachis.
Lux Mastra.
Hydractinia numerous.
Shells of Mega.
Hyroids.
Skate eggs. empty
Astyris.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7006 -

Date, June 26 - 99.

Time of day, 12.35 ; of tide, Flood

Locality, Vineyard Sound

Exact position, Cape Poge, S. E.
3 3/8 miles

Depth, 7 fathoms

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam trawl

Direction of drift, E. x S 1/2 S ; distance, 1/2 mile

Temperature of air, 70 therm. No., 1.013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 19

~~" at depth of fathoms, "~~ 19.4°C

" at bottom, 1.0023 " 67°

Number of salinometer, 7323

Barometer reading, 29.97

State of sky, Blue light clouds

Direction of wind, S. S. W. ; force, 1

Rain, No

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Neale

Jas. A. Smith Ussuan

Name and position of observer,

[illegible]
Phoenix Ussuan

NOTES RELATING TO STATION NO. 7006.

Fulgur
Sycotypus.
1 small sandy flour
2 firm spot "
1 Whelk.
1 Hake - squirrel
1 pecten -
Cap. fornicata
1 Window pane
E. ~~Long~~ Policaris
Lunacea eggs. & shells
Livinia.
Squid eggs
Balanus.
Neverita shells with E. policaris.
Young cancer rorosata
E. Long. in neverita
Razor clam - empty
Hydractinia
Bryozoa Serpula -
Escarella. Young cunners
Tritia shells occupied by E. Long
Anomia shells fed.
Pandjeus.
Gastropod Eggs -
Pelia mutica
Small quar. of sea and
Mactra shells.
Phycis tenuis.
Sinodolla
Pandalus.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7007

Date, June 26 - 99

Time of day, 1.30 ; of tide, High water

Locality, Vineyard Sound.

Exact position, East chop light N. 80. x 80 1/2 W. 1 5/8 miles.

Depth, 6 3/4 fath

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam trawl

Direction of drift, S. E. ; distance, 1/2 mile

Temperature of air, 78° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022.6 temp., 19.6°

~~" at depth of fathoms,~~ "

" at bottom, 1.023. " 68 19°C

Number of salinometer, 7323

Barometer reading, 29.97

State of sky, Blue, light clouds

Direction of wind, S.S.W. ; force, 2

Rain, No -

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Jas. A. Smith, Master USNavy

Name and position of observer, V. D. Mulligan Ph. USN

NOTES RELATING TO STATION NO. 7007

Pelia Mutica
Fulgar.
Asterias Forbesii
E. Policaris in Neverita and
Cumacea shells
Bryozoa. Sand Dollars.
Tritia. Gulf weed
Dead Eel grass
Balanus. Bugula.
Pipe fish Raia
E. longicarpus. Erinacea
Cancer irrorata
Shells of Mactra.
Squid egg. Scapharca
Anachis occupied E. longicarp
Pectin shell.
Euroalpinx occu. by E. long.
Serpula. Panopeus
Dead Mya - Tagina pectata
Dead shell
Sycotypus.
Dillica Costata.
Few hydroids
Crangon
Capridula formicata + plana
or Rock eels.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7008

Date, June 26 - 1899

Time of day, 2.00 ; of tide, 1/8 ebb.

Locality, Vineyard Sound

Exact position, East Chop light W. 3/4 S. 3/4 mile.

Depth, 7 fathoms

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam trawl

Direction of drift, N.W. 3/4 W. ; distance, 1/2 mile

Temperature of air, 68° fahr therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19° C

~~" at depth of fathoms, "~~

" at bottom, 1.023 " 68° fahr 19° C

Number of salinometer, 7321

Barometer reading, 29.97

State of sky, Blue, light - clouds

Direction of wind, S.S.W. ; force, 2

Rain, no

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, Fish Com.

Name and rank of commanding officer, Mate Jas. A. Smith. USNavy

Name and position of observer, J. D. Milligan Pharmacist USN

NOTES RELATING TO STATION NO. 7008

Sulphur Sponge
Amarecum pellucidum
1 Erinacea constellatum.
Rock eel.
Leptoclinum album.
Sycotypus
1 similis flounder. Bryozoa,
E. polecanis, Cynthia.
Cop. plana, Fulgar.
Common scar.
Mitilus Modiola Modiolus.
Lepidonotus. E. anelipes.
Vermetus. radicula
Cribrella – squid.
Serpula,
Chiton apiculata,
Stems of Parypha.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7009

Date, June 26 99.

Time of day, 2.30 ; of tide,

Locality, Thieyard Sound

Exact position, East Chop light S. 1/4 E. 5/8 mile.

Depth, 10 1/2 fath

Nature of bottom, Sandy

Dredging instrument used, Fleet bran trawl

Direction of drift, N. x N. 1/2 W. ; distance, 1/2 mile

Temperature of air, 73° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0226 temp., 19°

~~" at depth of fathoms,~~ "

" at bottom, 1.023 " 18.6° C

Number of salinometer, 7323

Barometer reading, 29.97

State of sky, Blue, light clouds

Direction of wind, S. S. W. ; force, 1

Rain, No.

Direction of surface current, ; force,

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. Fish Com.

Name and rank of commanding officer, Mate Jas. A. Smith. U.S. Navy

Name and position of observer, J. D. Milligan Pharmacist U.S.N.

NOTES RELATING TO STATION NO. 7009

Cornuma Star
Liomia
Mod. Mod. shells.
Bryozoa.
Sulphur sponge. Mactra shells.
Chiton.
Arbacia. Bugula
Live mactra.
E. Policaris - Serpula -
Eronacea
Sycotypus. Lunacea heros shells
Fulgar. Rock eel
Live skate egg. Eggs of {Lunacea Natica
Few hydroids ~~cupula~~ (?) Sertularia
Pelia. Tritia
Amarecum constel. & kellinid
Cap. plana. Neverita.
Scaphara shell.
Anachis "
Hydrastrin & Cynthia.
Escharella.
Leptoclinium.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7010

Date, July 7th 99 —

Time of day, 10.50 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head, Ox W. 3 1/2 [illegible]

Depth, 12 fathoms

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam trawl

Direction of drift, E.N.E. ; distance, 5/8

Temperature of air, 71 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 18.8

" at depth of fathoms, "

" at bottom, 1.023.4 " 61.07 16.3.C

Number of salinometer, 7323

Barometer reading, 29.86

State of sky, Hazy

Direction of wind, P.D.W. ; force, 2

Rain, No

Direction of surface current, — ; force, —

" of bottom " — ; force, —

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Maher

J.A. Smith, Ensign

Name and position of observer,

J.D. Milligan

Ch

NOTES RELATING TO STATION NO. 7010

2 Eosmacea.
sev. green urchins.
1 small window pane
· Eupadrinus bernhardi
" policans.
Eggs of Lunacea h (?)
· Sea pork
Sand. ~~of~~ dollars.
1 Cribrella
1 ~~Cribrella~~ Heterocrypta.
· Lunacea heros.
E longicaudus

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 70111

Date, ~~11.20~~ July 7 — 99.

Time of day, 11.20 ; of tide,

Locality, Vineyard Sound.

Exact position, Gay Head S. x W. 1/4 W 3 1/2 miles

Depth, 12 1/2

Nature of bottom, Sandy

Dredging instrument used, Tangle

Direction of drift, W. S. W. ; distance, 3/8

Temperature of air, 71.5 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 18.6

~~" at depth of fathoms, "~~

" at bottom, 1.0234 " 61.5° F. 17° C

Number of salinometer, 7322

Barometer reading, 29.86

State of sky, Hazy

Direction of wind, S. S. W. ; force, 2

Rain, No —

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, N. S. F. C. S. Fish Hawk

Service to which attached, U. S. Fish Com

Name and rank of commanding officer, Mate J. A. Smith, U. S. N.

Name and position of observer, J. D. McGregor

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7012

Date, July 7 – 99

Time of day, 1.55 pm; of tide,

Locality, Vineyard Sound

Exact position, Nobska light

W. x S. 3/4 S. 3/4 mile

Depth, 5 fathoms.

Nature of bottom,

Dredging instrument used, 7 feet beam trawl

Direction of drift, W.S.W. ; distance, 3/8

Temperature of air, 70° fah. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1,022 temp., 21.2° C

~~" at depth of fathoms, "~~

" at bottom, 1,0222 " 20.4° C 71.5° F.

Number of salinometer, 7323

Barometer reading, 29.89.

State of sky, Hazy, Blue

Direction of wind, S.S.W. ; force, 2

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Comm.

Name and rank of commanding officer, Mate

J. A. Smith. Nenaw

Name and position of observer,

J. D. Milligan

Pharmacist, USN

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7013

Date, July 10 — 99

Time of day, 12.45 ; of tide, 3/4 flood

Locality, Wrigand Sound

Exact position, Gay Head S. x W. 4 miles

Depth, 12 fathoms

Nature of bottom, Sandy, rocky

Dredging instrument used, 7 feet beam trawl

Direction of drift, N. E ; distance, 1/2

Temperature of air, 70 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, " 60.° fahr

Density at surface, 1.023.2 temp., 18.2 C

" at depth of fathoms, " 15.3° C

" at bottom, 1.024 " 60. Fahr

Number of salinometer, 7323

Barometer reading, 29.83

State of sky, Blue, cloudy

Direction of wind, S. W. ; force, 2

Rain, no —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S. Fish Com

Name and rank of commanding officer, Male —

J. A. Smith. USNavy

Name and position of observer,

J. D. Milligan

Ph. USNavy

NOTES RELATING TO STATION NO. 7013

Cribrilla.
1 Ermacea.
2 lady crab.
1 Dumus flounder
Eupadomis pohum
" Longicaptis
" Bernhardus
Maroon shrimp
Eggs of lunacea h.?
" " Telinasca
Sacs dollar

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7014

Date, July 10—99

Time of day, 1.15 p.m.; of tide, near h. water

Locality, Vineyard Sound.

Exact position, Gay Head South 2 m

Depth, 14 2 fathoms

Nature of bottom, sandy, small rocks

Dredging instrument used, 7 feet hour trawl

Direction of drift, E x S. ; distance, 1/2

Temperature of air, 69° fah therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19° C

" at depth of fathoms, " 15.4

" at bottom, 1.0236 " 60

Number of salinometer, 7323

Barometer reading, 29.84

State of sky, Blue. light clouds

Direction of wind, S.W. ; force, 2

Rain, no —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. F.C. S. Fish Hawk

Service to which attached, U.S. F. Com.

Name and rank of commanding officer, Mali

J. A. Smith, USNavy

Name and position of observer,

J. D. Milligan

Ph. D. USNavy

NOTES RELATING TO STATION NO. 7014

Amphibolus
Pedicellaria, Cestata
E. lenf.
" Brook.
" Polycarpi
Natica heros.
Windsor pace.
Egg case ilhoneros.
" " Lunacia heros.
Maroon skin.
Bryozoa.
Capsicula fornicata
Hydroid.
Asterias forbesii
Tritia
small green urchin

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7015

Date, July 10 – 99

Time of day, 4.45 ; of tide, High water

Locality, Vineyard Sound

Exact position, Gay Head

D. D. E 1 5/8

Depth, 14 1/2 fathoms

Nature of bottom, mussel bed. –

Dredging instrument used, 7 feet beam trawl

Direction of drift, E 1/2 N ; distance, 1/2

Temperature of air, 68° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 18.7

~~" at depth of fathoms, "~~

" at bottom, 1.0238 " 16.4 61.0 fahr

Number of salinometer, 7223

Barometer reading, 29.84

State of sky, Blue. light clouds

Direction of wind, S. W. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. D. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mate

J. A. Smith. USNAC

Name and position of observer,

J. W. Milligan

Pt. USNA

Over a mussel bed

NOTES RELATING TO STATION NO. 7015

Pecten tin. Costata
Erinacea Raia
Forbesii (Asterias)
Can. Frovatus
Egg case of illinacea
Argina
Natica heros. large no.
Green sea urchin small
Large quantity Mytilus
Astarte.
Lunabulum
E. Bernhardus.
Cl
Egg case of skate.
Capricula fornicata
Small sculpsis
Rusty. flounder
Windowpane "
Winter "

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7016

Date, July 10 – 99

Time of day, 2.25 ; of tide, 1/4 Ebb.

Locality, Vineyard Sound

Exact position, Gay Head

S. 1/2 W. 1 1/8 miles

Depth, 14 fathoms

Nature of bottom, Mussel bed & mud

Dredging instrument used, 7 feet beam tr.

Direction of drift, E.N.E. ; distance, 1/2

Temperature of air, 68° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19.6

~~" at depth of fathoms, "~~ 16.3 C

" at bottom, 1.023.6 " 61.5 F.

Number of salinometer, 7223

Barometer reading, 29.84

State of sky, Blue. light clouds

Direction of wind, S. W. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, N.S.F.C.S. Fish Hawk

Service to which attached, N.S.F. Com.

Name and rank of commanding officer, Male

J. A. Smith USN

Name and position of observer,

J. W. Milligan

P. L. USN

NOTES RELATING TO STATION NO. 7016

Egg case Illianassa
Sculpin
Ermacia.
Rusty fish
Pulen tin costata.
Mytilus.
Forbes / asteroa.
Can. Irrorata. (some soft)
Asteroas (Maroon)
Spongia -
Astarte.
Sand dollar
Eupadurum. Burnhardus
Prawn
Young hake
" Sculpin
Buccinum undatum
Toad fish
Lepidonotus
Crangon Vulgaris
Small green urchin
Caprodula fornicata
" plana

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7017

Date, Jan. 10—99.

Time of day, 3.10 p.; of tide, 1/4 —

Locality, Vineyard Sound

Exact position, Gay Head S. 1/2 W 4 1/4 miles

Depth, 8 1/2 fath

Nature of bottom, Sandy Rocky

Dredging instrument used, Feet Kaiser

Direction of drift, E.N.E.; distance, 5/8

Temperature of air, 68 therm. No., 1013

" of surface water, "

" at depth of fathoms, " ~~65° f.~~

" at bottom, 1.0234 " ~~16° c~~

Density at surface, 1.023 temp., 19° C

" at depth of fathoms, " 16° c

" at bottom, " 65° f.

Number of salinometer, 7323

Barometer reading, 29.86

State of sky, Blue. Cloudy

Direction of wind, S.W ; force, 1

Rain, nil

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com. Mali

Name and rank of commanding officer, J. A. Smith Nsung

Name and position of observer, J. H. McMillan

NOTES RELATING TO STATION NO. 7017

Homarus America
& Mitow Jan
Some Mussels
Saw Dollar
Can, Innovators

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7018

Date, July 17–99.

Time of day, 10.30 ; of tide, – 1/2 flood

Locality, Ent. 18. Muskegon Ch.

Exact position, Musk. L. sav. stat. N. E 1/2 E. 8 miles

Depth, 17 1/2 fathom

Nature of bottom, Sandy

Dredging instrument used, Test brass L.

Direction of drift, S.W. ; distance, 1/2

Temperature of air, 69.5 therm. No., 1013

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19.5

~~" at depth of fathoms,~~ " 13.7

" at bottom, 1.0242 " 53.8

Number of salinometer, 7323

Barometer reading, 30.09

State of sky, Blue

Direction of wind, S.W. ; force, 2

Rain, Not

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com. Mali

Name and rank of commanding officer, J. A. Smith Usman

Name and position of observer, [illegible]

NOTES RELATING TO STATION NO. 7018

H Spot Flounder
Agonial hake. (Phycis chuss)
Sand dollars.
Lutevites.
Rusty flounder.
E ~~[illegible]~~; Brownhaden
Small ermacia.
Empty skate egg.
Red lined shrimp.
Small natica
Pecten ten costata.
~~Sulphur sponge~~.
Crangon Vul.
Green urchin.
Egg case illianassa
Cant borealis.
Cycloraodium

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7019

Date, July 11—97

Time of day, 11.20 ; of tide, 3/4 flood

Locality, Ent. to Mass. Ch

Exact position, Mark. l. oar. stat.

N. E — 10 miles

Depth, 19 fathom

Nature of bottom, Sandy

Dredging instrument used, Heatham trawl

Direction of drift, S. S. W. ; distance, 3/4

Temperature of air, 69° — therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0232 temp., 19.2°

" at depth of fathoms, " 13.5°

" at bottom, 1.0242 " 53° F.

Number of salinometer, 7323

Barometer reading, 30.10

State of sky, Blue

Direction of wind, S. W. ; force, —

Rain, No —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F.Com.

Name and rank of commanding officer, Mate

J. A. Smith Wo Navy

Name and position of observer,

[illegible]

NOTES RELATING TO STATION NO. 7019

Sand dollars.
Rusty Shrimp
Subrutes
Hydroid.
Pecten Cist.
E. Grease Natica Lens.
E. Bumhardus Thanassa
Asterias Forbesii
Sand dab
Cancer irroratus

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7020

Date, July 11-99

Time of day, 12.20 ; of tide, 7/8 flood

Locality, Ent. to Mus. Chan.

Exact position, Musk. l. sav. stat

N. Ex E ~~Ex E~~ 9 miles

Depth, 15 fathoms

Nature of bottom, Sandy

Dredging instrument used, Heel b. Tr

Direction of drift, S. ; distance, 1/2

Temperature of air, 69° F. therm. No. 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0235 temp., 19° C

" at depth of fathoms, " 14.7° C

" at bottom, 1.0242 " 56.7 F.

Number of salinometer, 7323

Barometer reading, 30.10

State of sky, Bhm

Direction of wind, S. W. ; force, 3

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com

Name and rank of commanding officer, Mate

J. A. Smith USNavy

Name and position of observer,

J. D. Milligan

Ph. USNavy

NOTES RELATING TO STATION NO. 7020

Rara Ermonia
Pelten Ten.
natica.
E. Brunhavn.
Hake.
Thunder mulli
" 4 spot.
Egg case Illanassa
" " natica

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7021

Date, July 11-99

Time of day, 1 pm ; of tide, High

Locality, Ent. Musk. Charm

Exact position,

Musk. l. sav. stat. Ex n. 8 3/4 m

Depth, 5 1/2 fathom

Nature of bottom, Sandy

Dredging instrument used, 7 feet beam tr.

Direction of drift, S. S. E ; distance, 1 1/4

Temperature of air, 69.6 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0226 temp., 20.4°C

~~" at depth of fathoms,~~ " 18.6°C

" at bottom, 1023 " 64.7

Number of salinometer, 7323

Barometer reading, 30.10

State of sky, Blue

Direction of wind, SW. ; force, 2

Rain, No

~~Direction of surface current,~~ ; force,

~~" of bottom "~~ ; force,

Name of vessel, U.S.F.C.S. Fish Hawk.

Service to which attached, Fr. Com

Name and rank of commanding officer, Mate

J. A. Smith U.S. Navy

Name and position of observer,

J. D. Milligan

NOTES RELATING TO STATION NO. 7021

Isopod
Pecten ten. Costata.
Raia Erinacea
Winter flounder
4 spot
"mud w. pane" "
Astarte.
Hydroids
Capitulata f.
Squid
Sand dollars:
E. Bernhardus
Natica
" egg string

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7022

Date, July 12 = 99

Time of day, 11 am ; of tide, 1/2 flood

Locality, Vineyard Sound

Exact position, Gay Head, D. 1/2 Ir.

4 1/2 miles

Depth, 12 1/2 fathoms

Nature of bottom,

Dredging instrument used, Trent ham tr.

Direction of drift, N. E. x N ; distance, 3/8 mile

Temperature of air, 78 fahr therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, " 16.0 C

Density at surface, 1.023 temp., 16.0 C

~~" at depth of fathoms, "~~

" at bottom, 1.023.3 " 12.5 62.0

Number of salinometer, 7323

Barometer reading, 30.02

State of sky, Blue

Direction of wind, S.W. ; force, 2

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Male

J. A. Smith Usnavy

Name and position of observer,

J. D. Mulligan

Ph. USN.

NOTES RELATING TO STATION NO. 7022

Lammarsa
Hydrows
Lady crab.
Sand Dollars
Raia Ermacea
As. Forbesii
E. Burnhardus
Cap. Plana. & f.
Natica
Fulga
Window pane flounder
Mytilus
Pecten tin Costatus
Orcha

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7023

Date, July 12 - 99

Time of day, 11.25 ; of tide, 1/2 flood

Locality, Vineyard Sound

Exact position, Gay Head S. 1/2 W. 3 miles

Depth, 14.72 f

Nature of bottom,

Dredging instrument used, 7 feet to trawl

Direction of drift, E.N.E ; distance, 1 mile

Temperature of air, 73 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.028 temp., 19° C

" at depth of fathoms, " 17.5 °C

" at bottom, 1.0282 " 61.7 f

Number of salinometer, 7323

Barometer reading, 30.00

State of sky, Blue

Direction of wind, S.W. ; force, 2

Rain, None

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate J. A. Smith U.S.Navy

Name and position of observer,

J. W. Milligan

NOTES RELATING TO STATION NO. 7023

Raia Ermacea
Panopeus
Egg case of Illiania
" " Natica
Spor flundr
Asterias Forbesii
Cap. plane.
Natica
Cupadinus Burnbarden
Sand dollars
Hydroid.
Bryozoa.
Teredo
Mytilus.
Squid.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7024

Date, July 12 '97

Time of day, 11.50 ; of tide, 3/4 flood

Locality, Vineyard Sound

Exact position, Gay Head

P. W. X Smith 2 3/4 miles

Depth, 15 fathoms

Nature of bottom,

Dredging instrument used, Hat b. Trawl

Direction of drift, E ; distance, 1/2 mile

Temperature of air, 74 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19°C

~~" at depth of fathoms,~~ "

" at bottom, 1.0232 " 17.2 61.° F.

Number of salinometer, 7323

Barometer reading, 30.00

State of sky, Blue

Direction of wind, S.W. ; force, 2

Rain, No —

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Comm.

Name and rank of commanding officer, Mate

J. A. Smith. Mariner

Name and position of observer,

R. D. Milligan

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7025

Date, July 12th 99

Time of day, 12.30 ; of tide, 3/4 flood

Locality, Vineyard Sound.

Exact position, Gay Head

S 1/4 W. 3/4 mile

Depth, 15

Nature of bottom, Sandy

Dredging instrument used, 7 feet S. Trawl

Direction of drift, E x N ; distance, 3/8

Temperature of air, 73° therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 18.8° C

~~" at depth of fathoms, " 17.6~~

" at bottom, 10235 " 63° F

Number of salinometer, 7323

Barometer reading, ~~30~~ 29.97

State of sky, Blue

Direction of wind, S. W. ; force, 2

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F. C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mali

J. A. Smith Nsnow

Name and position of observer,

J. D. Milligan

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7026

Date, July 12 99

Time of day, 3.40 ; of tide, 9 1/4 Ebb

Locality, Vineyard Sound

Exact position, Near Nobska

Nobska light W.X.I. 3/4 mile

Depth, 12 fath

Nature of bottom, small rocks.

Dredging instrument used, 7 ft h

Direction of drift, W.S.W. ; distance, 3/8 mile

Temperature of air, 72° F. therm. No.; 1023

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0224 temp., 22.2

" at depth of fathoms, " 20.5° C

" at bottom, 1023 " 68.5 F.

Number of salinometer, 7323

Barometer reading, 29.94

State of sky, Blue

Direction of wind, O.W. ; force, 2

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate

J.A. Smith Norway

Name and position of observer,

J.W. Milligan

NOTES RELATING TO STATION NO. 7026

Squid
Red sea urchin
Squid eggs.
Limpets
Coral.
Algae,

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7027

Date, July 12 - 99 —

Time of day, 4.00 pm; of tide, 1/2 mile

Locality, Vineyard Sound.

Exact position, Nobska W. O. W.

1 mile

Depth, 6 fathoms

Nature of bottom,

Dredging instrument used, Tangle ~~7 feet O. Trawl~~

Direction of drift, W. S. W.; distance, 1/2 mile

Temperature of air, 72° fahr therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0224 temp., 21.3°

" at depth of fathoms, "

" at bottom, 1023 " 69.0 f 20.5

Number of salinometer, 7323

Barometer reading, 29.94

State of sky, Blue

Direction of wind, O. Dr.; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com

Name and rank of commanding officer, Mate

J. A. Smith, Usnavy

Name and position of observer,

J. H. Milligan

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7028

Date, July 15—99

Time of day, 10.55 ; of tide, 1/2 Ebb.

Locality, Vineyard Sound

Exact position, Gay Head D.E x S. 1/2 S. 1 1/2 miles.

Depth, 16 1/2 fath.

Nature of bottom, Muddy.

Dredging instrument used, 7 feet b. trawl

Direction of drift, W 1/2 S. ; distance, 1/2 mile

Temperature of air, 80° f. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 19° C

~~" at depth of fathoms, "~~ 14.5° C

" at bottom, 10242 " 52.5 f.

Number of salinometer, 7323

Barometer reading, 29.97

State of sky, Blue. light clouds

Direction of wind, S. W. ; force, 2

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com

Name and rank of commanding officer, Mate

J. A. Smith. USNavy

Name and position of observer,

J. D. Milligan

Ph. USNavy

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7029

Date, July 15—99

Time of day, 11:40 ; of tide,

Locality, Vineyard Sound.

Exact position, Gay Head

S. X W. ½ W. 1¼

Depth, 17½ fath.

Nature of bottom, Muddy

Dredging instrument used, 7 feet b. Trawl

Direction of drift, W x S. ; distance, ½ mile

Temperature of air, 75 therm. No., 10 x 3

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10222 temp., 20.2 C

~~" at depth of fathoms, "~~ 15.1° C

" at bottom, 10244 " 53.2 F

Number of salinometer, 7323

Barometer reading, 29.95

State of sky, Blue. b. clouds

Direction of wind, E.N.E. ; force,

Rain, no

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7030

Date, July 15—99

Time of day, 12.55 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head

Depth, 12 fath

Nature of bottom, muddy

Dredging instrument used, 7 feet b. trawl

Direction of drift, E. x N. ; distance, 1/2

Temperature of air, 73.5 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022.1 temp., 20.6° C

" at depth of fathoms, "

" at bottom, 1.024 " 15.7° C 57.5° F

Number of salinometer, 7320

Barometer reading, 29.85

State of sky, 13 blue, light clouds

Direction of wind, Ene. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Male

J. A. Smith. USNavy

Name and position of observer,

J. Dunnigan

Ph. USNavy

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7031

Date, July 15 99

Time of day, 1.20 ; of tide,

Locality, Vineyard Sound.

Exact position, Gay Head S. x Fr. 3 Kmiles

Depth, 8 fath.

Nature of bottom, Gravelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, E.N.E. ; distance, 1/2 m.

Temperature of air, 72.5° F. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022 temp., 20.6°C

" at depth of fathoms, " 18.

" at bottom, 1023 " 53.4

Number of salinometer, 7323

Barometer reading, 29.85

State of sky, Blue, Cloudy

Direction of wind, E.N.E ; force, 2

Rain, No –

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Male

J. A. Smith, Ussuan

Name and position of observer,

J. D. Milligan

Pharmacist. Usn

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7032

Date, July 15 – 99

Time of day, 2.15 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head

Depth, 10 fathom

Nature of bottom, Gravelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, N E x N ; distance, 1/2 M.

Temperature of air, 74° fah therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0216 temp., 22.0°C

~~" at depth of fathoms, "~~ 19.0°C

" at bottom, 1.0228 " 62.8°C

Number of salinometer, 7323

Barometer reading, 29.86

State of sky, Blue light Clouds

Direction of wind, Ene ; force, —

Rain, No

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mate

J. A. Smith, U.S.N.

Name and position of observer,

J. W. Milligan

Pharmacist. U.S.N.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7033

Date, July 20 - 99

Time of day, 9.50 ; of tide,

Locality, Vineyard Sound

Exact position, Nobska Pt. W x N. 3/4 Mile

Depth, 5 1/4 fathoms

Nature of bottom, Rocky, Gravelly

Dredging instrument used, 7 feet beam trawl

Direction of drift, W. ; distance, 1/4

Temperature of air, 72° F. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 20.7° C

~~" at depth of fathoms, "~~

" at bottom, 1.0224 " 21.0° C 69.3° F

Number of salinometer, 7323

Barometer reading, 29.95

State of sky, Blue

Direction of wind, E. ; force, 2

Rain, No -

Direction of surface current, / ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mate J. A. Smith, Usnam

Name and position of observer, J. D. Milligan Pharmacist, Usny

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7034

Date, July 20th 1899

Time of day, 10.20 ; of tide,

Locality, Vineyard Sound

Exact position, Nobska Pt. N x N 1 mile

Depth, 6 fathoms

Nature of bottom, Gravelly,

Dredging instrument used, 7 feet beam trawl

Direction of drift, W. ; distance, 1/2 mile

Temperature of air, 72° F. therm. No., 1017

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.022 temp., 21.0° C

" at depth of fathoms, " 20.6° C

" at bottom, 1.022 " 69.2° F

Number of salinometer, 7323

Barometer reading, 29.95

State of sky, Blue

Direction of wind, E. ; force, 2

Rain, No

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate J. A. Smith. Usnavy

Name and position of observer, J. D. Milligan Pharmacist. Usnavy

Pecten ten Costata,

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7035

Date, July 20 – 99

Time of day, 2.40 pm ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head South 3 m

Depth, 15 1/2 fathoms.

Nature of bottom,

Dredging instrument used, 9 feet beam trawl.

Direction of drift, N.W. East ; distance, 3/4 m.

Temperature of air, 68,5° fahr therm. No., 1073

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0226 temp., 19.5° C.

~~" at depth of fathoms, "~~

" at bottom, none taken. " 14.4° C / 58° fahr

Number of salinometer, 7323

Barometer reading, 29.98.

State of sky, Blue

Direction of wind, E. N. E. ; force, 1

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mahi

J. A. Smith. Ns Nam

Name and position of observer,

J. D. Milligan

Pharmacist. Ns Nam

NOTES RELATING TO STATION NO. 7035

Pecker Cin Calata

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. ~~[illegible]~~ 7036

Date, July 20 99

Time of day, 3.10 pm ; of tide,

Locality, Vineyard Sound.

Exact position, ~~[illegible]~~ Head D. 3/4 W. 2 3/4 m.

Depth, 17 fath.

Nature of bottom,

Dredging instrument used, 9 feet beam travel

Direction of drift, E.N.E. ; distance, 1 1/4 m

Temperature of air, 69° f. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.023 temp., 18.8° c

~~" at depth of fathoms, " 16.5° c~~

" at bottom, 1.0234 " 61.0° f.

Number of salinometer, 7323

Barometer reading, 29.98

State of sky, Blue light

Direction of wind, E.N.E. ; force, 2

Rain, No.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. 7036

Many algae
Fag Sand dollar
Two small rusty dabs
1 4 Spot —
2 Flounders
Large blue cunner,
4 window panes
Cap, fornicata with gastropod eggs
Euplenra
Mya — dead shells
Sand dab,
Winter flounder,
& Bothus maculatus

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7036

Date, July 24th 99

Time of day, 11.15 am; of tide,

Locality, Buzzards Bay.

Exact position, Bird Field Light N. 3/4 E. 5 3/4 m.

Depth, 8 fathom.

Nature of bottom, Muddy

Dredging instrument used, 9 feet b. trawl

Direction of drift, E x S. ; distance, 5 miles

Temperature of air, 68.5 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0212 temp., 22.0° C

" at depth of fathoms, "

" at bottom, 1.0218 " 21.4° C 70° F.

Number of salinometer, 7026

Barometer reading, 30.16

State of sky, Hazy

Direction of wind, E. ; force, 3

Rain, no —

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mate

J. A. Smith. U.S.N.

Name and position of observer,

J. D. Mulligan

Pharmacist. USN

NOTES RELATING TO STATION NO. 7037

Tritia
Yoldia
Capsidula f.
Sycotypus Arth E. Barnhardsen
Pand dollar.
Aptenides.
Euplema caudata

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7038

Date, July 24th 99

Time of day, 11.45 am; of tide,

Locality, Buzzards Bay

Exact position, 73rd Isla Light N. 3/4 E. 3 3/4 miles

Depth, 8 fathoms

Nature of bottom, Muddy

Dredging instrument used, 9 feet trawl

Direction of drift, E. D. E.; distance, 3/4 mile

Temperature of air, 70 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.021, temp., 23.6°C

~~" at depth of fathoms, "~~

" at bottom, 1.0214 " 72° F.

Number of salinometer, 7323

Barometer reading, 30.13

State of sky, Blue

Direction of wind, E; force, 3

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Male

J. A. Smith, Ussnavy

Name and position of observer,

P. D. Milligan

Ph. Ussnavy

NOTES RELATING TO STATION NO. 7038

Spind.
Cystendes
Young scup.
Volgula.
Fulgar carica.
Libinia
Tritia
Cap.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7039

Date, July 24th 99

Time of day, 12.45 ; of tide,

Locality, Buzzards Bay

Exact position, Bird Island Light E.x N. 1/2 mile

Depth, 3 fathoms

Nature of bottom, Muddy

Dredging instrument used, 7 feet b. trawl

Direction of drift, E.N.E ; distance, 1 mile

Temperature of air, 70. therm. No., 10 B

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0204 temp., 24°C

" at depth of fathoms, "

" at bottom, 1.020 " 73° F.

Number of salinometer, 7323

Barometer reading, 30.16

State of sky, Blue

Direction of wind, E ; force, 2

Rain, No

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate

J. A. Smith. U.S.N.A.

Name and position of observer,

J. D. Milligan

Ph. U.S.N.A.

NOTES RELATING TO STATION NO. 7039

Chiton

Astarte

Libinia

Sulphur spon.

Asterias Forbesii

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7040

Date, July 24 - 99

Time of day, 205 pm ; of tide,

Locality, Buzzards Bay

Exact position, Bird Island light N. E x E. 2 miles

Depth, 4 fathoms

Nature of bottom, Muddy Dredge

Dredging instrument used, ~~Heat & Dredge~~

Direction of drift, N. E. x E ; distance, 1/2 mi.

Temperature of air, 69 0 f, therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0204 temp., 23° C

~~" at depth of fathoms, " 23.0 C~~

" at bottom, 1.0206 " 73.8 f.

Number of salinometer, 7320

Barometer reading, 30.16

State of sky, Blue, light clouds

Direction of wind, E ; force, 4

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com

Name and rank of commanding officer, Mate

Jas. A. Smith. U.S. Navy

Name and position of observer, J. D. Millegan

NOTES RELATING TO STATION NO. 7040

Algae
Sul. sponge & red sponge
Cap. formicata
" placa
Yoldia
Nuya, dead shell
Pecten,
Cribrella

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7041

Date, July 29. 99

Time of day, 10.50 am ; of tide,

Locality, Long Isld Sound.

Exact position, Eatons neck light S. E 2 miles

Depth, 10½ fathoms

Nature of bottom, Muddy

Dredging instrument used, 7 ft. trawl & dredge

Direction of drift, S.S.W. ; distance, 5/8 mile

Temperature of air, 77.86 f. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 22.4° C

~~" at depth of fathoms, "~~ 21.0° C

" at bottom, 1.018.8 " 68.5° f.

Number of salinometer, 7315

Barometer reading, 29.96

State of sky, Cloudy.

Direction of wind, ; force,

Rain, No

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate

J. A. Smith N.S.

Name and position of observer,

J. D. Willingham

NOTES RELATING TO STATION NO. 7041

~~Mature Scallops &~~
~~Grinellia~~
~~Mus seabass~~
Y Hdra —
E. Longirostris
Libinia
Skate eggs (dead)
2 winter flounder
1 other " (?)
As. Forbesii — (1 spec)

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 704

Date, July 29 - 99

Time of day, 11.45 ; of tide,

Locality, Long Island Sound

Exact position, Eaton Neck light

W 1/4 S. 2 1/4 m.

Depth, 9 fathoms.

Nature of bottom, Muddy

Dredging instrument used, Fish trawl & dredge

Direction of drift, South ; distance, 1/2 mile

Temperature of air, 79 therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 23.5°C

~~" at depth of fathoms, "~~

" at bottom, 1.0184 " 21.4°C 69.7°F

Number of salinometer, 7323

Barometer reading, 29.93

State of sky, Cloudy

Direction of wind, ; force,

Rain, No

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Male

J. A. Smith. Usnavy

Name and position of observer,

J. D. Milligan

Pharmacist. Usnavy

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7043

Date, July 29. 1899

Time of day, 1.45 ; of tide,

Locality, Long Sold

Exact position, Eatons Neck light
S. W x W. ½ W 6 miles

Depth, 18½ fathoms

Nature of bottom, Muddy

Dredging instrument used, 7 feet trawl & dredge

Direction of drift, W. S. W. ; distance, 1 mile

Temperature of air, 79. therm. No., 1013

" ~~of surface water,~~ "

" ~~at depth of~~ fathoms, "

" ~~at bottom,~~ "

Density at surface, 1.018 temp., 23.5° C

~~" at depth of fathoms,~~ " 19.9

" at bottom, 1.018.6 " 67.8 F

Number of salinometer, 7513

Barometer reading, 29.92

State of sky, Blue, Cloudy

Direction of wind, ; force,

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Mate
J. A. Smith, Uscrau

Name and position of observer,
J. D. Millegan
Pharmacist, Uscrau

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7044

Date, July 29. 99

Time of day, [illegible] ; of tide,

Locality, Long Island Sound

Exact position, Eatons Neck light

S.W. x 0 1/2 D. 7 1/4 m.

Depth, 7 1/2

Nature of bottom, Muddy

Dredging instrument used, 7 feet trawl & bridge

Direction of drift, S. x W. ; distance, 1/2 mile

Temperature of air, 77° F therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 23.0 C

~~" at depth of fathoms, " 22.90~~

" at bottom, 1.018 " 69° F.

Number of salinometer, 7323

Barometer reading, 29.90

State of sky, Blue, light clouds

Direction of wind, ; force,

Rain, No.

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C. S. Fish Hawk

Service to which attached, U.S.F. Com

Name and rank of commanding officer, Male

J. A. Smith, Uscaw

Name and position of observer,

J. D. Milligan.

Pharmacist Uscaw

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7040

Date, July 29

Time of day, 3.20 ; of tide,

Locality, Long Island Sound

Exact position, Eaton Neck

S. x W. 4 3/4 m

Depth, 12

Nature of bottom, Muddy

Dredging instrument used, Ft. trawl & dredge

Direction of drift, W. S. W. ; distance, 1/2

Temperature of air, 76° F. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 73.2

" at depth of fathoms, " 21.4° C

" at bottom, 1.0194. " 68° F.

Number of salinometer,

Barometer reading, 29.87

State of sky, Blue, light clouds

Direction of wind, ; force,

Rain, Nd

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. S. Fish Hawk

Service to which attached, U. S. F. Com.

Name and rank of commanding officer, Master

J. A. Smith USNavy

Name and position of observer,

J. H. Mulligan

Pharmacist USNavy

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7046

Date, July 29

Time of day, 4.15 ; of tide,

Locality, Low Gold Ground

Exact position, Fraton Neck Light

D. x E. 1/2 E. 5 miles

Depth, 13 fathoms.

Nature of bottom, Muddy

Dredging instrument used, ~~Hand tangle & Dredge~~ tangle

Direction of drift, D. 3/4 N ; distance, 1/2 mi

Temperature of air, 76. therm. No., 1019

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018 temp., 23.0

~~" at depth of fathoms, "~~

" at bottom, 1.0186 " 21. 67.8° F.

Number of salinometer, 7315

Barometer reading, 29.85

State of sky, Blue Hazy

Direction of wind, ; force,

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com. Mate

Name and rank of commanding officer, J. A. Smith

Name and position of observer, J. D. Milligan Ph. Nat.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7047

Date, August 24th 1899

Time of day, 11 25 ; of tide,

Locality, Morgan Sound

Exact position, Key Head Light S. ½ W. 3 mile

Depth, 11 fathoms

Nature of bottom, Sandy Mud

Dredging instrument used, 7 feet B. trawl

Direction of drift, E.N.E. ; distance, 1¼ miles

Temperature of air, 72° fah. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10222 temp., 21°.C

" at depth of fathoms, " 19.

" at bottom, 1025 " 63.3°f

Number of salinometer, 7323

Barometer reading, 29.83

State of sky, Blue, light clouds

Direction of wind, ; force,

Rain, no –

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F.Comm.

Name and rank of commanding officer, Capt J.A. Smith U.S.N.

Name and position of observer, J. D. Milligan

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7048

Date, Aug. 4th 1899

Time of day, 12.00 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head Lgt S.W by S. 2 5/8 miles

Depth, 13 feet

Nature of bottom, Sandy & Muddy

Dredging instrument used, 7 feet trawl & dredge

Direction of drift, East ; distance, 1/2 mile

Temperature of air, 70 therm. No., 1023

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10232 temp., ~~70.3~~ 20.0

~~" at depth of fathoms, "~~

" at bottom, 10236 " 70.3 °F.

Number of salinometer, 7323

Barometer reading, 29.83

State of sky, Blue, light clouds

Direction of wind, ; force,

Rain, no

~~Direction of surface current, ; force,~~

~~" of bottom " ; force,~~

Name of vessel, U.S. F. C. Fish Hawk

Service to which attached, U.S. F. Com.

Name and rank of commanding officer, Mate

J. A. Smith, U.S. Navy

Name and position of observer,

[illegible] Phoenix Navy

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 7049

Date, Aug. 4 1899

Time of day, 12.50 ; of tide,

Locality, Vineyard Sound

Exact position, Gay Head Lgt S W ½ S 2¼ mile

Depth, 13 fathoms.

Nature of bottom, Sandy, shelly

Dredging instrument used, 7 feet hawk & dredge

Direction of drift, E by N ; distance, 5/8 mile

Temperature of air, 71° fahr. therm. No., 1013

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023 temp., 20.2 C

" at depth of fathoms, " 18° –

" at bottom, 1.0232 " 64.7

Number of salinometer, 7323

Barometer reading, 29.82

State of sky, Blue light clouds

Direction of wind, ; force,

Rain, no –

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Com.

Name and rank of commanding officer, Mate J. A. Birch Nonan

Name and position of observer, [illegible]

10.
5.
5.
5.
28.
5.90
1.71
$60.61

$7.00

1.85
2
3.90
2.00
5.90